

**We claim:**

1. A method for connecting a plastic pipe to another plastic part, wherein an outer layer of the plastic pipe and an outer layer of the other plastic part are largely opaque to laser light of a certain wavelength, comprising the steps of:
  - 5 a) sheathing both the plastic pipe and the other plastic part ends thereof by an additional adaptor made of a plastic transmissive to laser light, and
  - 10 b) fastening the adaptor to at least one of the plastic pipe and the other plastic part by laser-beam welding.
2. The method of claim 1, wherein the plastic pipe is a multi-layer pipe comprising a barrier layer.
- 15 3. The method of claim 1, wherein the plastic pipe is a multi-layer pipe comprising an antistatic inner layer.
4. The method of claim 1, wherein the plastic pipe is a multi-layer pipe comprising a barrier layer and an antistatic inner layer.
- 20 5. The method of claim 1, wherein the other plastic part is a pipe.
6. The method of claim 1, wherein the other plastic part is selected from the group consisting of a quick connector, a branch, a valve and a cover for the pipe.
- 25 7. The method of claim 1, wherein the adaptor is a sleeve.
8. The method of claim 1, further comprising welding the adaptor onto the pipe and onto the other plastic part by at least one peripheral weld in each case.
- 30 9. A composite part produced by the method of claim 1.
- 35 10. The composite part of claim 9, wherein the composite part is a motor-vehicle pipeline.

11. The composite part of claim 9, wherein the composite part is a gas transport line.

5 12. The composite part of claim 9, wherein the composite part is a component of a medical device.

10 13. The composite part of claim 10, wherein the composite part is a pipeline selected from the group consisting of a fuel line, a coolant line, a brake fluid line, a hydraulic fluid line, and a line of a windshield washing system.

15 14. A method for connecting a plastic pipe to another plastic part, wherein an outer layer of the plastic pipe and an outer layer of the other plastic part are largely opaque to laser light of a certain wavelength, comprising the steps of:

20 (a) molding an additional adaptor of a material transmissive to laser light together with the other plastic part by a two-component injection-molding process,  
(b) inserting the pipe into the adaptor, and  
(c) fastening the pipe to the adaptor by means of at least one weld.

15. The method of claim 14, wherein the at least one weld is a laser weld.

25 16. A composite part produced by the method of claim 14.

17. The composite part of claim 16, wherein the composite part is a motor-vehicle pipeline.

30 18. The composite part of claim 16, wherein the composite part is a gas transport line.

19. The composite part of claim 16, wherein the composite part is a component of a medical device.

35 20. The composite part of claim 17, wherein the composite part is a pipeline selected from the group consisting of a fuel line, a coolant line, a brake fluid line, a hydraulic fluid line, and a line of a windshield washing system.

21. A method for connecting a plastic pipe to another plastic part, wherein an outer layer of the plastic pipe and an outer layer of the other plastic part are largely opaque to laser light of a certain wavelength, comprising the 5 steps of:

- (a) molding an additional adaptor of a plastic transmissive to laser light onto the other plastic part,
- (b) inserting the pipe into the adaptor, and
- (c) fastening the pipe to the adaptor by means of at least one weld.

10 22. The method of claim 21, wherein the at least one weld is a laser weld.

23. A composite part produced by the method of claim 21.

15 24. The composite part of claim 23, wherein the composite part is a motor-vehicle pipeline.

25. The composite part of claim 23, wherein the composite part is a gas transport line.

20 26. The composite part of claim 23, wherein the composite part is a component of a medical device.

25 27. The composite part of claim 24, wherein the composite part is a pipeline selected from the group consisting of a fuel line, a coolant line, a brake fluid line, a hydraulic fluid line, and a line of a windshield washing system.

30 28. A method for connecting a plastic pipe to another plastic part, wherein an outer layer of the plastic pipe and an outer layer of the other plastic part are largely opaque to laser light of a certain wavelength, comprising the steps of:

- (a) molding the other plastic part onto an adaptor of a plastic transmissive to laser light,
- (b) inserting the pipe into the adaptor, and
- (c) fastening the pipe to the adaptor by means of at least one weld.

35 29. The method of claim 28 wherein the at least one weld is a laser weld.

30. A composite part produced by the method of claim 28.

31. The composite part of claim 30, wherein the composite part is a motor-vehicle pipeline.

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32. The composite part of claim 30, wherein the composite part is a gas transport line.

33. The composite part of claim 30, wherein the composite part is a

10 component of a medical device.

34. The composite part of claim 31, wherein the composite part is a

pipeline selected from the group consisting of a fuel line, a coolant line,

a brake fluid line, a hydraulic fluid line, and a line of a windshield washing

15 system.

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